

1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/472,067A

DATE: 05/13/2003
TIME: 18:47:14

Input Set : N:\Crf4\05132003\1472067A.raw.txt
Output Set: N:\CRF4\05132003\1472067A.raw

SEQUENCE LISTING

```
1 (1) GENERAL INFORMATION:
               (i) APPLICANT: HU, A-LI W.
       3
                              HARTLEY, JAMES L.
       4
                              JORDAN, HEATHER J.
             (ii) TITLE OF INVENTION: NUCLEIC ACID LADDERS
            (iii) NUMBER OF SEQUENCES: 7
             (iv) CORRESPONDENCE ADDRESS:
       8
                   (A) ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
       9
                   (B) STREET: 1100 NEW YORK AVENUE N.W., SUITE 600
      10
                   (C) CITY: WASHINGTON
      11
                   (D) STATE: DC
      12
                   (E) COUNTRY: USA
      13
                   (F) ZIP: 20005
              (v) COMPUTER READABLE FORM:
     15
                   (A) MEDIUM TYPE: Floppy disk
                   (B) COMPUTER: IBM PC compatible
                   (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     17
     18
                   (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     19
             (vi) CURRENT APPLICATION DATA:
C--> 20
                   (A) APPLICATION NUMBER: US/09/472,067A
C--> 21
                   (B) FILING DATE: 23-Dec-1999
     22
                   (C) CLASSIFICATION:
     23
           (vii) PRIOR APPLICATION DATA:
W--> 24
                  (A) APPLICATION NUMBER: US 09/048,242
     25
                  (B) FILING DATE: 26-MAR-1998
W--> 26
                  (A) APPLICATION NUMBER: US 60/040,914
     27
                  (B) FILING DATE: 27-MAR-1997
            (ix) TELECOMMUNICATION INFORMATION:
     28
     29
                  (A) TELEPHONE: (202)371-2600
     30
                  (B) TELEFAX: (202)371-2540
    31 (2) INFORMATION FOR SEQ ID NO: 1:
    32
            (i) SEQUENCE CHARACTERISTICS:
    33
                  (A) LENGTH: 10 base pairs
    34
                  (B) TYPE: nucleic acid
    35
                  (C) STRANDEDNESS: both
    36
                  (D) TOPOLOGY: linear
    37
            (ii) MOLECULE TYPE: cDNA
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
    38
    39
            ATCTCAGGAT
    41 (2) INFORMATION FOR SEQ ID NO: 2:
                                                                                      10
    42
            (i) SEQUENCE CHARACTERISTICS:
    43
                 (A) LENGTH: 10 base pairs
```

Changed the margins in cases where the sequence text was 'wrapped' down to the next line. Edited a format error in the Current Application Data section, specifically: Edited a format error in the Current Application Data section, specifically: Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by applicant was the prior application data; or other Added the mandatory heading and subheadings for 'Current Application Data'. Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an intogen Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted extra, invalid, headings used by an applicant, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A 'Hard Page Break' code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in antino acid sequences and adjusted the "(A)Length: field accordingly (errodue to a Patentin bug). Sequences corrected:	Changed a file from non-ASCII to ASCII Changed a file from non-ASCII to ASCII Changed the mamins in cases where the sequence text was "wrapped" down to the next line.
Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputited by applicant was the prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted extra, invalid, headings used by an applicant, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stån coden in arting acid sequences and adjusted the "(All genth" field accordingly leadings.	Changed the mamins in cases where the sequence text was "wrapped" down to the post line.
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A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop coden in artino acid sequences and adjusted the "(A)) engin; field accordingly (exce	
Deleted <i>ending</i> stop codon in antino acid sequences and adjusted the *(A)Length:* field accordingly (erro	
	eleted <i>endIng</i> stop codon in ameno acid sequences and adjusted the *(A)Length:* field accordingly (errore to a PatentIn bug). Sequences corrected:
Other:	Other:

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/472,067A

DATE: 05/13/2003
TIME: 18:47:14

Input Set : N:\Crf4\05132003\1472067A.raw.txt
Output Set: N:\CRF4\05132003\1472067A.raw

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44
                (B) TYPE: nucleic acid
   45
                (C) STRANDEDNESS: both
   46
                (D) TOPOLOGY: linear
  47
          (ii) MOLECULE TYPE: cDNA
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
  48
  49
          ATCAGTCGAT
  51 (2) INFORMATION FOR SEQ ID NO: 3:
                                                                                    10
          (i) SEQUENCE CHARACTERISTICS:
  53
                (A) LENGTH: 10 base pairs
  54
                (B) TYPE: nucleic acid
  55
               (C) STRANDEDNESS: both
  56
               (D) TOPOLOGY: linear
  57
         (ii) MOLECULE TYPE: cDNA
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
  58
  59
          ATCGCATGAT
  61 (2) INFORMATION FOR SEQ ID NO: 4:
                                                                                   10
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  62
  63
               (A) LENGTH: 10 base pairs
  64
               (B) TYPE: nucleic acid
  65
               (C) STRANDEDNESS: both
 66
               (D) TOPOLOGY: linear
 67
         (ii) MOLECULE TYPE: cDNA
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 68
         ATCATGCGAT
 71 (2) INFORMATION FOR SEQ ID NO: 5:
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              (B) TYPE: nucleic acid
 75
              (C) STRANDEDNESS: both
 76
              (D) TOPOLOGY: linear
        (ii) MOLECULE TYPE: cDNA
 78
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
79
        AATTCTCGGG ATATCTCAGG ATATCTCAGG ATATCTCAGG ATATCTCGGG
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                                                                                  60
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              (B) TYPE: nucleic acid
86
             (C) STRANDEDNESS: single
87
             (D) TOPOLOGY: linear
88
       (ii) MOLECULE TYPE: cDNA
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
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        CAACAACAAG AATTCAGGCC TAGCCAGTGC CTCGTCCATT TTT
90
92 (2) INFORMATION FOR SEQ ID NO: 7:
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93
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             (A) LENGTH: 37 base pairs
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             (B) TYPE: nucleic acid
96
             (C) STRANDEDNESS: single
97
             (D) TOPOLOGY: linear
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/472,067A

DATE: 05/13/2003
TIME: 18:47:14

Input Set : N:\Crf4\05132003\1472067A.raw.txt
Output Set: N:\CRF4\05132003\1472067A.raw

98 (ii) MOLECULE TYPE: cDNA 99 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7: 100 CAACAACAAA AGCTTCTTAC ATGGCCCAGG TGCAGTA

37

VERIFICATION SUMMARY

DATE: 05/13/2003 PATENT APPLICATION: US/09/472,067A TIME: 18:47:15

Input Set : N:\Crf4\05132003\I472067A.raw.txt Output Set: N:\CRF4\05132003\1472067A.raw

L:20 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:21 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:26 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)